;			#
·	Application No.	Applicant(s)	1
AL CLE FAIL LING	10/672,719	LAWLOR ET AL.	
Notice of Allowability	Examiner	Art Unit	V -
	James M McAleenan	3745	
The MAILING DATE of this communication appearance of the Communication appearance of the Communication appearance of the Communication appearance of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	oplication. If not included n will be mailed in due cou	urse. THIS
1. 🛛 This communication is responsive to Applicant's Terminal	Disclaimer & Telephone Interview.		
2. The allowed claim(s) is/are <u>1-70</u> .			
3. The drawings filed on 25 September 2003 are accepted by	the Examiner.	1	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:		,	
Certified copies of the priority documents have			
2. Certified copies of the priority documents have3. Copies of the certified copies of the priority do	• • • • • • • • • • • • • • • • • • • •		from the
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application	i nom ale
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requir	rements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO	-948) attached	
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the (Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ick) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal I	Patent Application (PTO-1	52)
 Induce of References Cited (P10-692) Dotice of Draftperson's Patent Drawing Review (PT0-948) 		• • • • • • • • • • • • • • • • • • • •	<i>52)</i>
	Paper No./Mail Da	ate <u>12/1/2004</u> .	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/25/2003 	08), 7. 🛛 Examiner's Amend	ment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's Statem	ent of Reasons for Allowa	ince
of Biological Material	9. Other		

Application/Control Number: 10/672,719 Page 2

Art Unit: 3745

EXAMINER'S COMMENT

1. Examiner acknowledges the telephone interview with Applicant on 11/15/2004.

- 2. Examiner acknowledges and has signed Applicant's filed IDS (9/25/2003).
- 3. Examiner acknowledges Applicant's filed Terminal Disclaimer on 11/29/2004. The Terminal Disclaimer was file by Applicant as a result of the telephone interview on 11/15/2004.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CAR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. R. reams Goodloe, Jr. (32,466)(253-859-9128) on December 1, 2004.

The application has been amended as follows:

IN THE CLAIMS:

In claim 5, line 1, "or in claim 2, or claim 4" has been deleted.

The above change to claim 5 has been made to correct a multiple dependency problem in the claims.

REASONS FOR ALLOWANCE

5. The following is an examiner's statement of reasons for allowance:

The instant invention is directed to an unobvious improvement over Lawlor (U.S. Patent Number 5,709,076). Lawlor discloses a gas compressor having an inlet (119) (see Figure 8 and Col. 5, lines 60-65) for supply of gas to be compressed (see Figure 8 and Col. 5, lines 37-65). Lawlor

Application/Control Number: 10/672,719 Page 3

Art Unit: 3745

discloses a rotor (102) (see Figure 8 and Col. 5, lines 37-47) having a central axis adapted for rotary motion thereabout, wherein the rotor extends radailly outward from the central axis to an outer surface portion having an outer extremity (see Figure 8 and Col. 5, lines 48-67). Lawlor discloses ramps forming features on the outer surface portion of the rotor. Lawlor discloses the ramps having lateral edges (120) for the first ramp, opposing leading edge inlet structures (130), inlet structure ramp surfaces (132) and an outboard side (134). The improvement comprises of the combination of: 1) a gas compressor having one or more strakes being provided adjacent to one or more of the supersonic compression ramps, wherein at least a portion of the one or more strakes extend outward from a portion of the outer surface portion of the rotor to a point adjacent to the interior surface portion of the peripheral wall; 2) whereby the one or more strakes effectively separate the inlet gas from the compressed gas downstream of each of the supersonic compression ramps. Regarding claim 24, the improvement comprises of the combination of: 1) a gas compressor being adapted to utilize at least a portion of the inner side surface of the first circumferential housing to compress the inlet gas there against, wherein the rotor has one or more strakes; 2) wherein the one or more strakes on the first rotor provided on each of the one or more gas compression ramps extend outward from at least portion of circumferential portion of the first rotor to a point adjacent to the inner side surface of the first circumferential housing. Regarding claim 56, the improvement comprises of the combination of: 1. a gas compressor compressing an inlet gas stream between one or more compression ramps and the stationary housing to generate a high pressure gas therefrom, whereby effectively separating the inlet gas from the high pressure by using one or more strakes along the periphery of the rotor; (2) wherein the one or more strakes are adjacent to the one or more gas compression ramps have at least a

Application/Control Number: 10/672,719 Page 4

Art Unit: 3745

portion of each of the one or more strakes extending outward from at least a portion of an outer surface portion of the rotor to a point adjacent to the inner surface of the stationary housing.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee, and to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "comments on Statement of Reasons for allowance."

PRIOR ART

6. No prior art is made of record.

Art Unit: 3745

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M McAleenan whose telephone number is 703-308-2827. The examiner can normally be reached on M-F 8:30-4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on 703-308-1044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

f.m.n.ale 12/1/04

James M. McAleenan Patent Examiner 703-308-2827

EDWARD K. LOOK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

12/9/04